



Contact

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Languages

Italian: native

English: C1 (CAE)

French: B2 (DEL F B2)

Spanish: B2 (DELE B2)

Skills

- Origin software
- Mestre Nova
- ChemDraw
- OPUS spectroscopy software
- Zotero
- Mirosoft office
- Basic LaTeX (Overleaf)
- Zetasizer

Sarah Pavin

PhD Student in Nanomaterials for Catalysis

Experience

○ PhD Student in Chemistry of Nanomaterials for Catalysis

IFP Energies Nouvelles | Lyon, France

November 2025 - Ongoing

Research project: Nanoengineering of mono- and bimetallic sulfide nanocatalysts for biomass valorization through hydrodeoxygenation (HDO).

Main activities: Colloidal synthesis, advanced characterization, and investigation of structure-property-performance relationships for the development of efficient bio-oil upgrading catalysts.

○ Research Internship – Nanosynthesis and Characterization Lab

Sapienza University of Rome | Italy

March 2024 - March 2025

Synthesis and characterisation of gold nanoparticles, organometallic compounds, platinum complexes and networks based on gold nanoparticles.

Analytical techniques: UV-Vis, FT-IR, Far IR, NMR, DLS

Education

○ Master's Degree in Inorganic and Physical Chemistry

January 2023 - March 2025

Sapienza University of Rome | Italy

- EQF Level 7 | 120 CFU (ECTS equivalent)
- **Master's Thesis:** Synthesis and Characterization of Networks Based on Gold Nanoparticles

○ Bachelor's Degree in Chemistry

October 2018 - January 2023

Sapienza University of Rome | Italy

- EQF Level 6 | 180 CFU (ECTS equivalent)
- **Bachelor's Thesis:** Study of the Solvation Properties of Mg^{2+} Ions on Magnesium Oxide Surfaces

○ High School Diploma

Sptember 2013 - July 2018

Liceo Ettore Majorana | Rome, Italy

- EQF Level 4

Conference Participation

○ GeCAT 2026 - Groupe d'Étude en Catalyse

18–21 May 2026 | La Londe-les-Maures, France

Poster presentation

○ SYNC 2024 – Symposium for Young Chemists: Innovation and Sustainability

24–28 June 2024 | Rome, Italy

Poster presentation